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RESEARCH ARTICLE

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Notulae to the Italian native vascular flora: 11

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Abstract

In this contribution, new data concerning the distribution of native vascular flora in Italy are presented. It includes new records, confirmations, exclusions, and status changes to the Italian administrative regions. A new combination in the genus *Pilosella* is proposed. Nomenclatural and distribution updates, published elsewhere, and corrigenda are provided as Suppl. material 1.

Keywords

Endemic taxa, Floristic data, Italy

How to contribute

The text for the new records should be submitted electronically to Lorenzo Lastrucci (lorenzo.lastrucci@unifi.it). The corresponding specimen along with its scan or photograph

have to be sent to FI Herbarium: Sezione di Botanica "Filippo Parlatore" del Museo di Storia Naturale, Via G. La Pira 4, 50121 Firenze (Italy). Those texts concerning nomenclatural novelties (typifications only for accepted names), status changes, exclusions, and confirmations should be submitted electronically to: Fabrizio Bartolucci (fabrizio.bartolucci@gmail.com). Each text should be within 1,000 characters (spaces included).

Floristic records

***Aconitum anthora* L. (Ranunculaceae)**

+ **TOS**: Villa Collemandina (Lucca), Pania di Corfino (WGS84: 44.197804N, 10.383953E), lungo la cresta rocciosa sopra la località "La Bandita", 1550 m s.l.m., 17 August 2020, *E. Cheli* (FI). – Species new for the flora of Toscana.

E. Cheli, G. Bedini

***Ajuga genevensis* L. (Lamiaceae)**

– **CAM**. – Species to be excluded from the flora of Campania.

According to Bartolucci et al. (2018), this species has not been recently found in Campania and Abruzzo. For both these administrative regions, Tenore (1831) indicated *Ajuga reptans* L. var. *montana* Ten., and, on this basis, Casali (1901) reported *A. genevensis* for Montevergine (Pignatti et al. 2018). However, Tenore's combination is a synonym of *A. reptans* (Grande 1923).

E. Del Guacchio

***Arabis caerulea* All. (Brassicaceae)**

– **LIG**. – Species to be excluded from the flora of Liguria.

This species was reported for Liguria by Penzig (1897), but at the time the administrative region included part of the Maritime Alps, which are currently located in France or in Piemonte. Furthermore, in Liguria the suitable habitats for this species (wet gravels above 1,900 m a.s.l.; Pignatti et al. 2017) are extremely reduced. No herbarium specimens were found in FI, GE, GDOR, and TO.

G. Barberis, S. Peccenini

***Bolboschoenus glaucus* (Lam.) S.G. Sm. (Cyperaceae)**

+ **MAR**: Porto Recanati (Macerata), loc. Scossicci, stagni artificiali ad uso venatorio ("guazzi") presso la foce del Fiume Musone (WGS84: 43.467787N, 13.632456E), c. 3 m, 13 October 2020, *L. Gubellini, N. Hofmann, S. Tonelli* (FI, PESA); dintorni di Fano, luoghi acquitrinosi nell'alveo del Metauro presso la foce, suolo prevalentemente argilloso, 18 September 1963, leg. et det. A.*J.B. Brilli-Cattarini* (PESA, under

the name *Scirpus maritimus* L. β *macrostachys* W.). – Species confirmed for the flora of Marche.

According to Bartolucci et al. (2018) and Di Natale et al. (2020), *B. glaucus* was known so far for Marche only as historical record.

L. Gubellini, N. Hofmann, S. Tonelli

***Bolboschoenus maritimus* (L.) Palla (Cyperaceae)**

+ **UMB**: Tuoro sul Trasimeno (Perugia), Punta Navaccia, tra i massi dell'argine del lago nei pressi del Campo del Sole (WGS84: 43.194102N, 12.079322E), ca. 255 m, 5 October 2020, *N.Hofmann* (FI; PESA). – Species confirmed for the flora of Umbria.

This species was recorded by Bartolucci et al. (2018) as doubtfully occurring in Umbria, and has been recently reported for this administrative region by Di Natale et al. (2020) based on old herbarium specimens.

L. Gubellini, N. Hofmann

***Bupleurum stellatum* L. (Apiaceae)**

– **LIG**. – Species to be excluded from the flora of Liguria.

This species was reported for Liguria by Penzig (1897) and Gismondi (1950) and, based on these records, also by Bartolucci et al. (2018) and Pignatti et al. (2018). Burnat (1906) provided only a few localities for the Maritime Alps, which currently fall in France. The habitat of this species (rocks and siliceous stony ground) is very rare in the Ligurian Alps. We were unable to trace any herbarium specimens in FI, GE, GDOR, and TO.

G. Barberis, S. Peccenini

***Bromus arvensis* L. subsp. *arvensis* (Poaceae)**

+ **TOS**: Piazzano (Empoli), lungo il Rio Camerata in loc. Villa Somelli (WGS84: 43.69403N, 10.966135E), margine di campi coltivati, 45 m, 2 August 2020, F. Roma-Marzio, L. Peruzzi (FI). – Subspecies new for the flora of Toscana.

F. Roma-Marzio, L. Peruzzi

***Carex elata* All. subsp. *elata* (Cyperaceae)**

+ **LIG**: Luni (La Spezia), "IT1345101 Piana del Magra", campi abbandonati a N di Luni Mare (WGS84: 44.063945N, 10.009447E), magnocariceto, 0 m, 1 April 2019, *I. Briozzo, D. Dagnino, C. Turcato* (GE No. 450). – Species confirmed for the flora of Liguria.

According to Bartolucci et al. (2018), *C. elata* subsp. *elata* is no longer recorded in Liguria. Barberis et al. (2019) cited three old herbarium specimens housed in GDOR.

I. Briozzo, D. Dagnino, C. Turcato

***Centaurea arrigonii* Greuter (Asteraceae)**

+ **LAZ**: Accumoli (Rieti), Forca Canapine, towards Pantani di Accumoli (WGS84: 42.72319183N, 13.20861419E), 1550–1600 m, arid subalpine meadows, 10 July 1957, leg. *V. Marchesoni*, rev. *S. Ballelli, D. Lucarini* (CAME, FI). – Species new for the flora of Lazio.

This specimen was previously referred to *C. ambigua* Guss. s.l. (Ballelli et al. 2005).

S. Ballelli, R. Pennesi, D. Lucarini†

***Chenopodium betaceum* Andrz. (Amaranthaceae)**

+ **UMB**: Perugia, isola Polvese (lago Trasimeno), dintorni della Villa S. Giuliano, il Poggio, Punta del Macerone (WGS84: 43.122316N, 12.130543E), incolti erbosi, 262–295 m, 23 October 2007, leg. *S. Ballelli, D. Lucarini*, det. *S. Ballelli*, conf. *D. Iamonico* (CAME); Perugia, isola Polvese (lago Trasimeno), dal molo Canoa Club alla Punta del Macerone (rive del viale nord) (WGS84: 43.118573N, 12.144589E), battigia, incolti, limiti boschivi, 262–270 m, 23 October 2007, leg. *S. Ballelli, D. Lucarini*, det. *S. Ballelli*, conf. *D. Iamonico* (HFLA). – Species confirmed for the flora of Umbria.

Chenopodium betaceum has been reported in Italy for the northern administrative regions (except Liguria), Marche, Lazio (central Italy) and as doubtful in Umbria (Bartolucci et al. 2018). This species is represented on the Polvese Island by two populations, both consisting of few individuals.

D. Iamonico, R. Pennesi, S. Ballelli

***Chenopodium pedunculare* Bertol. (Amaranthaceae)**

+ **VEN**: San Martino Buon Albergo (Verona), loc. Cà dell'Aglio, margine di strada sterrata nei pressi di una stalla (WGS84: 45.405564N, 11.105253E), 37 m, 30 November 2019, *F. Menini, M. Trenchi* (FI); Erbè (Verona), loc. Oltre Tione, prato incolto con accumulo di stallatico (WGS84: 45.240611N, 10.964377E), 13 m, 7 October 2020, *S. Andreatta* (VER No. SA525) – Species confirmed for the flora of Veneto.

Chenopodium pedunculare was only recently re-established (Iamonico and Mosyakin 2018), and has been poorly known from Veneto: its presence was witnessed by Bertoloni, who found it in Brondolo (Chioggia, Verona) and mentioned it at "*Fossa Clodia ad viam della Madonna a Prof. Naccario*". Other than there, the author also described this species only in Sarzana (La Spezia; Bertoloni, 1837). Several specimens have been found in San Martino Buon Albergo (Verona), by the side of a country lane near a big barn, on nitrophilic soil.

F. Menini, M. Trenchi, S. Andreatta

***Crucianella angustifolia* L. (Rubiaceae)**

+ **PIE**: Bussoleno (Torino), Val di Susa, fraz. Case Trucco (WGS84: 43.149152N, 7.125142E), prateria xerica, 650 m, 16 June 2014, *G. Nota, A. Mainetti, S. Ravetto*

Enri (FI); Giaglione (Torino), Val di Susa, Borgata Clarea (WGS84: 45.134872N, 6.993274E), radura xerica all'interno di boschi misti di latifoglie e pino silvestre, 882 m, 26 August 2020, *M. Pittarello, D. Barberis, M. Lonati* (FI). – Species confirmed for the flora of Piemonte.

Crucianella angustifolia was reported for Piemonte by Braun-Blanquet (1961), for a site close to the first site here recorded. Since then, this species had never been observed again in Piemonte.

S. Ravetto Enri, M. Pittarello, D. Barberis, M. Lonati

***Eleocharis caduca* (Delile) Schult. (Cyperaceae)**

0 **PUG**: Otranto (Lecce), Laghi Alimini ("*In paludosis ad lacum Alimini, prope Hydrantum*") (WGS84: 40.201063N, 18.445781E), August 1875, leg. et det. *H. Groves*, rev. *L. Lastrucci* (FI barcode FI054915, under the name *Heleocharis ovata* R. Br.). – Species not recently confirmed for the flora of Puglia.

In Italy, this species was reported as native only for Toscana, Sicilia, and Sardegna by Bartolucci et al. (2018).

L. Lastrucci, D. Viciani

***Gentiana lutea* L. subsp. *symphyandra* (Murb.) Hayek (Gentianaceae)**

+ **TOS**: Villa Collemandina (Lucca), Monte Vecchio (WGS84: 44.230882N, 10.414822E), lungo il versante roccioso che alterna ripidi canali ad ampi macereti terminanti al limite della faggeta, esposizione S, stazione compresa tra 1620 e 1750 m s.l.m., 5 August 2020, *E. Cheli* (FI). – Subspecies new for the flora of Toscana.

E. Cheli, G. Bedini

***Glebionis discolor* (d'Urv.) E.Cano, Musarella, Cano-Ortiz, Piñar Fuentes, Spamp. & Pinto Gomes (Asteraceae)**

+ **BAS**: Scanzano Jonico (Matera), SS 106, svincolo rotatoria di Scanzano Jonico (WGS84: 40.235278N, 16.692500E), bordo strada, 11 May 2018, leg. *C.M. Musarella*, det. *V.L.A. Laface, C.M. Musarella, G. Spampinato* (FI, REGGIO). – Species new for the flora of Basilicata.

This species was recently re-evaluated based on morphological and ecological features (Cano et al. 2017). *Glebionis discolor* was recently reported also for Puglia (Manni 2020).

C.M. Musarella, V.L.A. Laface, G. Spampinato

***Helleborus viridis* L. subsp. *abruzzicus* (M.Thomsen, McLewin & B.Mathew) Bartolucci, F.Conti & Peruzzi (Ranunculaceae)**

+ **MAR**: Sefro (Macerata), Forca di Bara (WGS84: 43.12632052N, 12.87509678E), 1160 m, edge of beech forest, no exp., 3 July 1962, leg. *V. Marchesoni* rev. *D. Lucarini* (CAME); Sarnano (Macerata), Monti Sibillini National Park, Pizzo di Meta-Punta

di Ragnolo (WGS84: 43.02522031N, 13.20534272E), 1560 m, meadows, 12 July 1962, leg. *V. Marchesoni*, rev. *D. Lucarini* (CAME). – Subspecies confirmed for the flora of Marche.

These specimens were previously referred to *H. viridis* subsp. *bocconei*, and then (2007) revised as *H. viridis* L. subsp. *abruzzicus*.

R. Pennesi, D. Lucarini†, S. Ballelli

***Hieracium amplexicaule* L. subsp. *chenevardianum* Zahn (Asteraceae)**

+ **VDA**: Brusson (Aosta), Castello di Graines (WGS84: 45.73843N, 7.75398E), mura interne, 1362 m s.l.m., exp. Est, 16 June 2020, leg. *S. Orsenigo*, det. *G. Gottschlich* (PAV). – Subspecies confirmed for the flora of Valle d'Aosta.

According to Bovio (2014) and Bartolucci et al. (2018), this subspecies was known, only historically, for Valle d'Aosta. Vaccari (1904–1911) reported its presence for several localities: between Bard and Champorcher, Valsavarenche, Èntrèves, Valgrisenche, between Aosta and Valpelline, and between Bionaz and Prarayer).

S. Orsenigo, G. Gottschlich

***Hieracium cydoniifolium* Vill. subsp. *parcepilosum* (Arv.-Touv.) Zahn (Asteraceae)**

+ **VEN**: Rocca Pietore (Belluno) sopra Passo Fedaia verso il Rifugio Padon (WGS84: 46.456420N, 11.888447E) cespugli in pascolo, su silice, 2100 m, 25 July 2020, leg. *C. Argenti*, det. *G. Gottschlich* (FI, *Herb. Argenti*). – Subspecies new for the flora of Veneto.

G. Gottschlich, C. Argenti

***Hieracium gombense* Lagger ex Christener subsp. *weitfeldense* (Murr) Zahn**

+ **VEN**: Livinallongo del Col di Lana (Belluno), in loc. Spiz de Jou, Altopiano di Cherz (WGS84: 46.508808N, 11.891936E), pascolo, su silice, 2095 m, 15 August 2020, leg. *C. Argenti*, det. *G. Gottschlich* (FI, *Herb. Argenti*). – Species new for the flora of Veneto.

G. Gottschlich, C. Argenti

***Hieracium lachenalii* Suter subsp. *amaurochlorum* (Zahn ex Heimerl) Zahn**

+ **VEN**: Ponte nelle Alpi (Belluno), in loc. La Secca (WGS84: 46.129080N, 12.317921E), rupe calcarea, 390 m, 26 May 2020, leg. *C. Argenti*, det. *G. Gottschlich* (FI, *Herb. Argenti*). – Subspecies new for the flora of Veneto.

G. Gottschlich, C. Argenti

***Hieracium levicaule* Jord. subsp. *perscissiforme* Benz & Zahn**

+ **ITALIA** (**VEN**): Agordo (Belluno), in loc. La Campona (WGS84: 46.302955N, 12.053582E), margine bosco a *Picea abies*, 1200 m, 26 June 2020, leg. *C. Argenti*, det. *G. Gottschlich* (FI, Herb. Argenti). – Subspecies new for the flora of Italy (Veneto).

This subspecies was hitherto only known from Austria and Slovenia (Zahn 1922–38).

G. Gottschlich, C. Argenti

***Hordeum geniculatum* All. (Poaceae)**

+ **LOM**: Stagno Lombardo (Cremona), destra idrografica del Fiume Po, ca. 1 Km a SE di Cascina Isolone (WGS84: 45.070042N, 10.040859E), carrareccia tra un giovane pioppeto e una boscaglia ripariale con *Salix alba*, *Humulus japonicus*, *Sicyos angulatus* e *Artemisia verlotiorum*, 35 m, 24 June 2020, leg. *P. Marenzi*, det. *F. Bonali*, conf. *E. Banfi* (FI, MSNM, *Herb. F. Bonali*). – Species new for the flora of Lombardia.

The population here reported consists of about eighty individuals.

F. Bonali, P. Marenzi, E. Banfi, G. Galasso

***Hyparrhenia sinaica* (Delile) Llauradó ex G.López (Poaceae)**

+ **LAZ**: Alvito (Frosinone), Fossa Maiura (WGS84: 41.715940N, 13.721343E), garriga sul versante esposto a sud di una grande dolina, 771 m, 26 May 2020, *L. Cancellieri*, *L. Carotenuto* (FI). – Species new for the flora of Lazio.

Hyparrhenia sinaica is a SW-Steno-Mediterranean species, reported in peninsular Italy for Toscana, Puglia, Calabria, and for Sicilia and Sardegna (Bartolucci et al. 2018); it was also recently reported also for Umbria (Bartolucci et al. 2019). A population of about 1 m^2 was found on the steep, south-facing slope of the Maiura doline on a loose and coarse substrate, apparently poor in organic matter.

L. Cancellieri, L. Carotenuto

***Laburnum alpinum* (Mill.) Bercht. & J.Presl (Fabaceae)**

+ **LAZ**: Settefrati (Frosinone), Val Canneto tra Rifugio Acquanera e Casone Bartolomucci (WGS84: 41.713656N, 13.901975E ± 100 m), margine di faggeta, 1330 m, 4 September 2020, *L. Cancellieri*, *G. Filibeck* (UTV). – Species confirmed for the flora of Lazio.

This species was reported as doubtful for Lazio by Bartolucci et al. (2018) and as an "almost certainly wrong record" by Anzalone et al. (2010); however, Conti (1995), following Grande (1924), referred to this taxon in an old record by Tenore and Gussone (1842) (sub *Cytisus laburnum*) from Val Canneto, where we have rediscovered it.

L. Cancellieri, G. Filibeck

***Laurus nobilis* L. (Lauraceae)**

+ **SAR**: Status change from naturalized alien to native for the flora of Sardegna.

Laurus nobilis is reported by Bartolucci et al. (2018) as casual or naturalized alien in five Italian administrative regions, including Sardegna, whereas in all other regions it is considered as a native species. However, several previous works (Desole 1947, 1949; Arrigoni 2006; Filibeck 2006) highlighted the native status of this species in Sardegna.

Indeed, Mediterranean Italy is probably an area of glacial refugia for this frost-sensitive species (Alessi et al. 2019 and references therein). In Sardegna, old individuals grow in gorges and along streams (Filibeck 2006; Bacchetta et al. 2007).

E. Farris, L. Rosati, G. Filibeck

***Leucopoa spectabilis* (Bertol.) H.Scholz & Foggi subsp. *spectabilis* (Poaceae)**

+ TOS: Zeri (Massa-Carrara), tra Bergugliara e Patigno, lungo la SP 37 (WGS84: 44.34857N, 9.75561E), macereti lungo la strada, su serpentino, 655 m s.l.m. 28 August 2020, *B. Foggi, A. Gabellini* (FI). – Subspecies confirmed for the flora of Toscana.

The first record for Toscana can be found in Caruel (1866) in the Monte Pisano area, where the subspecies has never been found again (Del Prete et al. 1990; Pierini et al. 2009; Pierini and Peruzzi 2014). A large population was found in an area between Bergugliara and Patigno in a serpentine outcrop.

B. Foggi, A. Gabellini, G. Ferretti

***Narcissus tazetta* L. subsp. *italicus* (Ker Gawl.) Baker (Amaryllidaceae)**

+ CAL: Reggio Calabria (Reggio Calabria), Podargoni (WGS84: 38.165488N, 15.780366E), noceto incolto, 542 m, 18 January 2020, leg. *V.L.A. Laface*, det. *V.L.A. Laface, C.M. Musarella, G. Spampinato* (FI, REGGIO). – Subspecies new for the flora of Calabria.

First observed in 2007 in an uncultivated field with *Juglans regia* L., nowadays the subspecies is much more widespread in the nearby areas.

C.M. Musarella, V.L.A. Laface, G. Spampinato

***Phelipanche nana* (Reut.) Soják (Orobanchaceae)**

+ MAR: Cagli (Pesaro e Urbino) (WGS84: 43.541627N, 12.652022E), vegetazione di recupero di coltivi abbandonati 280 m, 16 May2020, leg. *G. Mei*, det. *G. Mei, A. Stinca, G. Domina (FI, Herb. Mei)*. – Species new for the flora of Marche.

This species, whose range is restricted to the Mediterranean area (Domina et al. 2011), is an annual parasite of the root systems mainly of *Urtica dioica* L., *Oxalis pes-caprae* L., *Asteraceae* and *Fabaceae*, both spontaneous and cultivated (Domina 2018).

G. Mei, A. Stinca, G. Domina

***Phlomis fruticosa* L. (Lamiaceae)**

+ SAR: Status change from doubtful alien to native for the flora of Sardegna.

Phlomis fruticosa is a northern Mediterranean calcicolous species typical of cliffs and garrigues, whose original areal extent is difficult to establish (Pignatti et al. 2018). In Sardegna, this taxon was first reported by Moris (1827, 1859). Later it was reported as native by Pignatti (1982) and Corrias and Diana-Corrias (1983). It was then

reported as doubtful casual alien by Arrigoni (2013), Bartolucci et al. (2018) and as native of doubtful occurrence by Pignatti et al. (2018). The population found in Taccu (WSG84: 39.513194N, 09.325653E) near S. Nicolò Gerrei (Sud Sardegna) confirms its presence in Sardegna, and certainly it has to be considered native, due to its presence in natural, inaccessible, and rocky contexts.

G. Bacchetta, G. Campus, L. Podda

***Pilosella cymosa* (L.) F.W.Schultz & Sch.Bip. subsp. *vaillantii* (Tausch) S.Bräut. & Greuter**

+ **VEN**: Canale d'Agordo (Belluno), nell'abitato di Gares (WGS84: 46.312934N, 11.882061E), prato, 1375 m, 28 June 2020, leg. *C. Argenti*, det. *G. Gottschlich* (FI). – Subspecies new for the flora of Veneto.

G. Gottschlich, C. Argenti

***Pilosella paragogiformis* (Zahn & Besse ex Käser) Soják (Asteraceae)**

+ **ITALIA (VDA)**: Champorcher (Aosta), Valle di Champorcher, scendendo dal Creton, sopra il Ponte delle Maddalene (WGS84: 45.614538N, 7.578559E), bordo strada, 1820 m s.l.m., 9 July 2013, leg. *M. Bovio et al.*, det. *G. Gottschlich* (AO, *Herb. Gottschlich 60034*); *ibidem*, 1814 m s.l.m., 4 July 2020, *C. Ganz, M. Broglio, M. Bovio* (FI, *Herb. Gottschlich 75989, Herb. Ganz*). – Species new for the flora of Italy (Valle d'Aosta).

Pilosella paragogiformis was published as *Hieracium paragogiforme* by Käser (1903), who cited a handwritten description sent to him by Zahn. Our collection from 2013 was first identified as *P. arida* (Freyn) Soják, however the second collection from 2020 shows that the broad white margins of the phyllaries do not fit with this species.

G. Gottschlich, M. Bovio

***Quercus coccifera* L. (Fagaceae)**

+ (CAS) **ABR**: Pineto (Teramo), Area Marina Protetta Torre del Cerrano (WSG84: 42.58842N, 14.08589E), in pineta retrodunale a dominanza di *Pinus pinea* L. con *Pinus halepensis* Mill. subsp. *halepensis*, 0 m, 14 November 2020, *J. Lupoletti, A. Pica* (FI). – Casual regional alien species new for the flora of Abruzzo.

It is very likely these plants derive from three adult and fertile planted specimens of *Q. coccifera* growing into the Mediterranean garden of the Marine Protected Area, 300 m from the discovery site.

J. Lupoletti, A. Pica

***Ranunculus rionii* Lagger (Ranunculaceae)**

+ SIC: Godrano (Palermo), Gorgo Lungo (WGS84: 37.900907N, 13.408385E), 1 June 2018, *L. Lastrucci, R. Bolpagni, L. Gianguzzi, O. Caldarella* (FI barcode

FI055169); Castronovo di Sicilia (Palermo), Gorgo di Carcaci (WGS84: 37.700990N, 13.540453E), 2 June 2018, *L. Lastrucci, R. Bolpagni, L. Gianguzzi* (FI barcode FI055170). – Species new for the flora of Sicilia.

Ranunculus rionii Lagger is a species distributed in Europe, North Africa, and central-western Asia (Wiegleb et al. 2017). In Italy, it is considered very rare (Pignatti et al. 2017), and is, so far, known with certainty only for Trentino-Alto Adige (Bartolucci et al. 2018), Lombardia, and Toscana (Bartolucci et al. 2019).

L. Lastrucci, R. Bolpagni, L. Gianguzzi, O. Caldarella

***Salix repens* L. subsp. *repens* (Salicaceae)**

– **ITALIA** (**LOM, VEN**). Species to be excluded from the flora of Italy (Lombardia, Veneto).

Many old records of *S. repens* for Lombardia and Veneto are unreliable, lacking habitats suitable for this species. No herbarium specimens attest to its presence in these administrative regions. Furthermore, the recent report (Frattini 1997) for Lombardia (Piana del Gaver, Tonale) is not confirmed. Most records of *S. repens* are to be referred to *Salix rosmarinifolia* L. or *S. helvetica* Vill., so that the species is to be excluded from Italy.

M. Merli, E. Banfi, G. Galasso

***Senecio doronicum* (L.) L. subsp. *orientalis* J.Calvo (Asteraceae)**

+ **TOS**: Val Serenaia (Lucca), Sentiero CAI 180, sopra il Rif. Donegani (WGS84: 44.130927N, 10.199348E), 1200 m, 7 July 2020, leg. *L. Pinzani*, det. L. Peruzzi, L. Pinzani (FI); Monte Orsaro (Massa-Carrara), (44.408214N, 9.990470E), 1800 m, 25 July 2020, leg. *L. Pinzani* det *L. Peruzzi, L. Pinzani* (PI); Monte Gomito (Pistoia), versante SE (44.123341N, 10.642118E), 1800 m, 21 July 2020, leg. *L. Pinzani*, det *L. Peruzzi*, *L. Pinzani* (PI). – Subspecies new for the flora of Toscana.

+ **LIG**: Pratorotondo (Genova) (WGS84: 44.427253N, 8.589218E), 1100 m, 26 June 2020, leg. *L. Pinzani*, det. *L. Peruzzi, L. Pinzani* (FI). – Subspecies new for the flora of Liguria.

In Toscana, *Senecio doronicum* subsp. *doronicum* has been reported by several authors along the northern Apennines (Raffaelli and Rizzotto 1991; Tomaselli et al. 2019; Marchetti 2020). According to Calvo et al. (2015), *S. doronicum* subsp. *doronicum* shows scattered arachnoid trichomes above the leaves and involucre weakly arachnoid to floccose. Our specimens, on the contrary, are glabrescent on both leaves and involucres, in agreement with the morphological features typical of *S. doronicum* subsp. *orientalis*. In Italy, *S. doronicum* subsp. *orientalis* occurs in many regions of the peninsula and on the eastern Alps (Bartolucci et al. 2018). In some localities, *S. doronicum* subsp. *orientalis* overlaps with *S. doronicum* subsp. *doronicum*, e.g., as in Monte Baldo (Veneto, Italy) (Calvo et al. 2015).

L. Pinzani, L. Peruzzi

***Senecio doronicum* (L.) L. subsp. *doronicum* (Asteraceae)**

–**TOS**. – Subspecies to be excluded from the flora of Toscana.

L. Pinzani, L. Peruzzi

***Stellaria ruderalis* M.Lepší, P.Lepší, Z.Kaplan & P.Koutecký (Caryophyllaceae)**

+ **LOM**: Milano (Milano), Monte Stella (WGS84: 45.490153N, 9.134815E ± 300 m), margine erboso, 130–180 m, 6 May 2020, leg. *M. Martignoni*, det. *G. Galasso* (FI, MSNM Nos 50831, 50832, 50833). – Species new for the flora of Lombardia.

This recently described species has been already reported for Italy (Lepší et al. 2019). The presence in Italy of this species is presumably much greater than currently documented, given its high morphological similarity with *Stellaria media* (L.) Vill.

M. Martignoni, E. Banfi, G. Galasso

***Ulmus laevis* Pall. (Ulmaceae)**

+ C **CAL**: Corigliano-Rossano (Cosenza), Foce del Fiume Crati (WGS84: 39.717472N, 16.524165E), bosco planiziale igrofilo, 5 m, 22 August 2019, *A. Brusco, R. Marchianò, G. Piovesan* (FI). – Cryptogenic species new for the flora of Calabria.

This species is cultivated in Italy as an ornamental tree (Mittempergher et al. 1993), and it has been regarded as non-native for the whole country (Banfi and Galasso 2010). However, genetic data (Pepori et al. 2013) suggest a native status for some populations in NW Italy. Bartolucci et al. (2018) consider the species as cryptogenic in Piemonte; it was not recorded for Calabria. We found two large individuals in an area of well-preserved riparian vegetation. We think that *U. laevis* in Calabria should provisionally have the status of cryptogenic.

G. Filibeck, A. Brusco, R. Marchianò, G. Piovesan

Nomenclatural novelties

***Pilosella piloselloides* (Vill.) Soják subsp. *litoralis* (Nägeli & Peter) Gottschl., comb. nov.**

urn:lsid:ipni.org:names:77217192-1

≡ *Hieracium florentinum* subsp. *litorale* Nägeli & Peter, Hierac. Mitt.-Eur., 540 (1885)
≡ *Hieracium piloselloides* subsp. *litorale* (Nägeli & Peter) Zahn, Syn. Mitteleur. Fl. [Ascherson & Graebner] 12/1: 315 (1929).

The combination *Pilosella piloselloides* subsp. *litorale* (Nägeli & Peter) Zahn reported by Bartolucci et al. (2018) was never published.

G. Gottschlich

Nomenclatural and distribution updates from other literature sources, and corrigenda

Nomenclatural and distribution updates, and corrigenda to Bartolucci et al. (2018) are provided in Suppl. material 1.

F. Bartolucci, G. Galasso

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Supplementary material 1

Supplementary data

Authors: Fabrizio Bartolucci, Gabriele Galasso

Data type: species data

Explanation note: 1. Nomenclatural updates; 2. Note updates; 3. Distribution updates; 4. Synonyms, misapplied or included names.

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